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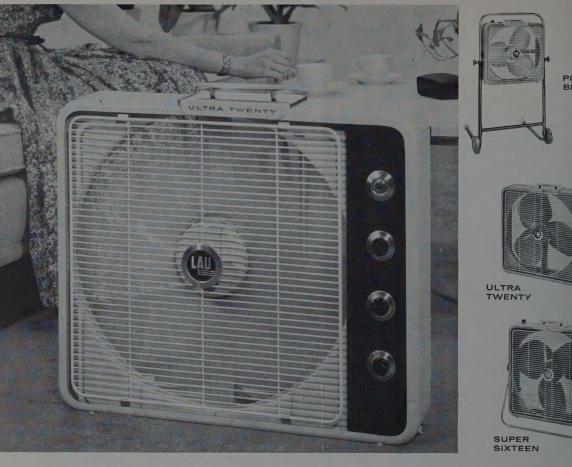
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statistics of . . .

Chicago Business

		May, 1957		April, 1957		N
Building permits, Chicago		3,335		2,976		
Cost		29,674,476	\$	27,548,957	\$	2
Contracts awarded on building projects,						
Cook Co., cost	. \$	73,384,000	\$	107,191,000	\$	10
(F. W. Dodge Corp.)						
Real estate transfers, Cook Co.		7,334	-	7,594	de	
Consideration	. \$	7,565,646			\$	
Bank clearings, Chicago			\$	4,853,050,848	\$	4,86
Bank debits to individual accounts:						
7th Federal Reserve District				27,957,000,000 14,026,340,000		27,13 13,31
Chicago only(Federal Reserve Board)	. Ф.	14,849,989,000	Ψ	14,020,340,000	\$1	(0,0)
Bank loans (outstanding) Chicago weekly	,	- 1				
reporting banks		4,112,000,000	\$	4,087,000,000	\$	3,71
Midwest Stock Exchange transactions:						
Number of shares traded		2,336,934		2,070,000		
Market value of shares traded	\$	77,884,262	\$	72,881,480	\$	8
L.C.L. merchandise cars, Chicago area		14,906		15,386		
Electric power production, kwh, Comm						
Ed. Co.	-	1,635,329,000		1,663,694,000		1,56
Industrial gas sales, therms, Chicago		15,682,811		16,407,121		- 1
Steel production (net tons), metropolitan	ı					
area	- 1	1,782,000		1,741,500		
Revenue passengers carried by Chicago Transit Authority lines:						
Surface division	-	42,493,735		41,758,175		4
Rapid transit division		9,817,855		9,716,542		
Postal receipts, Chicago	. \$	12,980,260	\$	13,669,588	\$)
Air passengers, scheduled, Midway and O'Hare airports:	ı					
Arrivals		442,668		410,000		
Departures		453,370		416,647		
Consumers' Price Index (1947-49=100), Chicago		122.2		122.0		
Receipts of salable livestock, Chicago		395,809		377,622		
Unemployment compensation claimants Cook & DuPage counties		- 38,575		36,128		
Families on relief rolls:						
Cook County		22,710		23,393		
Other Illinois counties		13,521		14,636		
A CONTRACTOR OF THE CONTRACTOR		,		2 - , 500		

August, 1957, Tax Calendar

Date Due Tax Returnable

1 Franchise Tax becomes delinquent and penalties of

- 1 Franchise Tax becomes delinquent and penalties of 1% per month begin to accrue Secretary of State
- Illinois Retailers' Occupation Tax and MROT return and payment for month of July

 Dept. of Revent
 If total income and social security taxes (O.A.B.)

If total income and social security taxes (O.A.B.) withheld from employe plus employer's contribution in July exceed \$100, pay amount to Authorized Depos

LY, 1957



ndering of New Plant now under construction for Clark Equipment Co.

ighth New Plant Located in learing's 73rd Street District

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COMMERCE

Magazine

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July, 1957

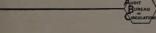
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Number 6

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The Calumet Area—Boom or By-pass? By June Blythe



Sturdy, Editor

Tom Callahan, Associate Editor

Gordon Rice, Advertising Manager

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Our Cover

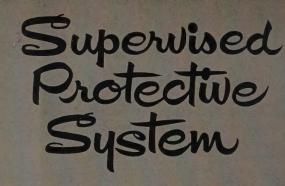
Looking at a model of the dual cycle boiling water reactor being built by General Elec-

tric for the Dresden nuclear power station of Commonwealth Edison Company are (left to right): Admiral Lewis L. Strauss, chairman of the U. S. Atomic Energy Commission; Willis Gale, chairman, Commonwealth Edison; and Cramer W. LaPierre, executive vice president of General Electric.

The Dresden dual cycle boiling water reactor will be the country's largest nuclear power reactor and is a modification of the simple boiling reactor. The latter uses steam created directly in the reactor. The dual cycle reactor does also, but in addition, this system has another cycle in which hot water from the steam drum, on its way back to the reactor, passes through secondary generators to create more steam. The principle of the boiling water reactor was developed by the Atomic Energy Commission's Argonne National Laboratory and expanded by General Electric into the dual cycle arrangement.

Experiment and test have demonstrated the inherent safety characteristic of the boiling water type reactor. In addition, the safety system is designed to cause an immediate shutdown in the event of improper operations. Safety signals override all other controls and call for instant shutdown of the plant. Even though the safety provisions make the possibility of a nuclear accident extremely remote, the reactor and associated equipment, as a further safeguard, are housed in a 190-foot vapor-tight steel sphere that would contain any radioactive vapor that might be released.

The turbine-generator for the Dresden Station is basically the same as a conventional steam facility. The turbine will have three sections—high pressure, intermediate pressure, and low pressure—on a single shaft. The shaft connects to an 1,800 r.p.m. generator. In designing the turbine, special attention is given to the elimination of crevices and pockets in which radioactive particles could lodge with a further provision for internal washing. See page 16 for full story of Chicagoland—Atomic Capital of the World.



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The Editor's Page

Obstacle To Progress

As shown on page 17 of this issue of COMMERCE, construction is well under way on the atomic fueled ower plant being built for the Commonwealth dison Company near Morris, Illinois. There is still, nowever, one major obstacle to the operation of this eactor or, for that matter, any other reactor of similar ize which is privately owned.

The government must provide for federal indemnity gainst third party public liability in excess of the private liability insurance available to the reactor

vner.

Private insurance companies have offered public ndemnity coverage up to \$60 million on any single eactor. A bill to provide additional coverage up to \$500 million was introduced in Congress last year. Although there was almost universal agreement as to be need for federal indemnity and almost universal pproval of the bill as proposed, it failed to pass secause it became involved in the controversy over public vs. private power. The bill was re-introduced a the current Congress and is now pending.

The risk of disaster resulting from an atomic power lant is said by scientists to be substantially zero. Evertheless, no scientist can demonstrate this without ctual extended experience in the operation of reacts, and none is willing to say that the risk is zero. Inder these circumstances, no private company could flord to accept this risk, however remote it may be the public interest, Congress, which passed legislaton permitting private construction and ownership freactors, should now carry through by promptly assing the pending indemnity bill.

ollow Through Needed

he proposal by President Eisenhower at the Govnors' Conference for the states to assume greater sponsibility for meeting governmental problems prodes a challenge and a constructive course of action state and local authorities.

Our federal system of government was established the assumption that all levels of government—cal, state and national—would be responsive to

isic governmental needs of the people.

Where a vacuum exists in supplying these needs, e federal government with its natural tendency to oliferate moves into areas rightly the responsibility state and local governments. This obvious truth, cited by Mr. Eisenhower, is the underlying reason rour ever-expanding federal government.

In proposing a joint federal-state task force to study

the redivision of governmental functions and financial activities, Mr. Eisenhower was both practical and politic.

Each governor possesses an administrative organization, resources and knowledge of everyday workings of intergovernmental relationships from the state viewpoint as does the President at the national level.

An all-encompassing study of state and local financial systems, their relationship to federal revenues, and the proper coordination of both is long overdue.

It is to be fervently hoped that the President's proposal will spark a general movement by state and local governments to reduce the trend to federal centralization and re-establish the states as strong partners in a virile federalism.

What's ahead for the rails?

That question serves as the title of an article by William T. Faricy, president of the Association of American Railroads. And it's a tremendously important question – for transportation is the lifeblood of the country.

Mr. Faricy tells of railroad achievements of late years. Billions of dollars have been spent to provide safer, swifter and more dependable service. Everything used in railroading — from the steel rail itself to yards and terminals has been changed and improved.

But the railroads have a fundamental problem bearing on their future—namely, profits. Last year the rate of return on their net investment was 3.95 per cent, the year before it was 4.2 per cent. Mr. Faricy says: "Such rates of return are not sufficient to enable the railroads to continue to make the kind of improvements which will produce better service at lower costs. What is ahead for the railroads in the way of further improvements . . . depends on the way the railroads are allowed opportunities to share in the nation's increased traffic on a more nearly equal basis with other modes of transportation."

This is not a plea for favors. Mr. Faricy brings up the big point in these words: "... the railroads want no special treatment at the hands of the government. They seek nothing more than removal of the inequalities which prevent each form of transport from doing for the public those things which it can do

best, all costs and service considered."

Man Sturly



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Here...There... and Everywhere

- Music for the Millions The W. W. Kimball Company has published "Music for the Millions," a history of the company and the piano and organ business, as part of its centennial year celebration. Author of the 334-page book is Van Allen Bradley. Price: \$4.00.
- Fuel for Dresden Dresden station (Commonwealth Edison's nuclear power station) will use slightly enriched uranium. A 40-year fuel supply has been allocated by the AEC. The plant will be fueled with 60 tons which will last as long as six years when full efficiency has been achieved. By comparison, a conventional generating station of the same-size will burn more than three million tons of coal in six years.
- 17th Annual All Star Luncheon The 17th annual all star luncheon which is sponsored by the Chicago Junior Association of Commerce and Industry will be held on August 6 in the Sheraton Hotel. The 55 players and coaches of the All Star Football team, along with 200 orphans and underprivileged children, the All Star Queen, and sports editors of the Chicago area, will be guests at the affair. Tickets for the luncheon are available from the Junior Association.
- High Fidelity Set Sales The High Fidelity phonograph makers expect to sell 1.5 million Hi-Fi sets with a retail unit price of over \$100 each during 1957 according to L. J. Collins, sales manager, of RCA Victor Radio and "Victrola" Division. The industry sold 900,000 such units in 1956.
- Home Decorating Some 600 million gallons of paint will be used in house redecorating this year according to American Can Company officials. They estimate that women will do almost a third of all interior

painting. Some member or me of the family will do the paint 70 per cent of all interior job in 46 per cent of all the o paint jobs undertaken.

- The Port of Chicago In 19 shipping companies engage direct Great Lakes overseas At the start of the 1957 shi season this had increased to 24 panies. These are some of the detailed in a new book-length entitled "The Port of Chicag the St. Lawrence Seaway," by old M. Mayer, Professor of G phy, University of Chicago. book is a summary of a te study of the expected effects St. Lawrence Seaway on the try and agriculture of the C "hinterland." Price \$3.00. De Geography, University of C or from Bacon, Whipple & pany, 135 S. LaSalle Street.
- Accepted for Life Insuran Approximately 97 out of every applications for ordinary life ance in the United States are accepted, 9,230,000 of last year 490,000 applications being acby the life companies, the Inof Life Insurance reports.
- See America First The 81 million vacationers will more than 17 billion dollars their own country according survey made by American E Last year vacationers seeing ca spent \$16.2 billion. Pennsy has joined New York, Floric New Jersey in the list of states income from tourism exceeds lion dollars annually.
- Another Chicago Centena On June 10, 1957, the Cont Illinois National Bank and Company of Chicago began

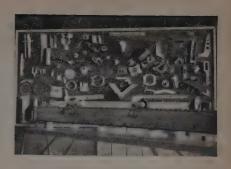
(Continued on page 36)

LY, 1957



◄ Aerocycle, a one-man helicopter now being tested by the U. S. Army, is one of the many aircraft for which Aeroaffiliates machines precision parts.

Some Examples of Aeroaffiliates' Work. All require fine tolerances and excellent finish. All
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Trends... in Finance and Business

• Chicagoland's Retail Market — The Chicago Loop still leads the city's shopping centers in retail sales with 16 per cent of the city's total. Between the years 1948 and 1954, the central business district, in spite of a five per cent decline in sales, was still far ahead of all other shopping areas. In 1954, it had a total dollar volume of \$714,784,000.

The nearest competitor is the 63rd and Halsted shopping district showing a total sales of \$92.3 million in 1954. This area, although it retained its number two position for total sales recorded, declined 19 per cent in 1954 as compared to its total in 1948. The third largest retail shopping area is Michigan Avenue from North Water Street to Oak Street with a total of \$90.6 million in 1954, or two per cent of the city's total retail sales. This shopping district increased its sales 18 per cent between 1948 and 1954, but still remained behind the Loop area and the 63rd and Halsted district.

The two leading shopping districts show a sales decline of 5 per cent and 19 per cent respectively, while the entire city's total sales volume was up 17 per cent during the six-year period. Of the total 79 shopping districts in Chicago, only eight showed a decline in total realis sales, 12 showed increases of less than five percent, and the remainder increased their sales from 5 per cent to 203 per cent. Eleven areas showed increases above 50 per cent.

These facts are pointed out by Philip M. Hauser, director of the Chicago Community Inventory of the University of Chicago, and Arthur J. O'Hara, vice president of the Business Research and Statistics Division of the Chicago Association of Commerce and Industry, as among those contained in the recently lished 454-page book "Chicagol Retail Market" (available from Association, One North La Street, Chicago 2, Illinois. I \$35.00). The publication inc information on the Chicago a retail trade showing the numb stores, the amount of sales of establishments, the number of ployes, and the amount of empayrolls, by type of retailing wismall geographic areas.

• Airline Outlook — In 1950 number of revenue passenger flown by the domestic airline taled 22.5 billion, a 100 per centrease over the year 1951, account to Curtis Barkes, vice presider Finance of United Air Lines, business has doubled in five year

"We are forecasting a doubli volume over 1956 by 1965, or a year period. This represents a ing down in the rate of growth about 20 per cent per year for past five years to a rate of a eight per cent per year for the nine years," Mr. Barkes told a remeeting of the Central States G. Investment Bankers Association. America. He added:

"This will give an annual voof about 45 billion RPM's by In 1956 the airlines handled 48 cent, or two out of every five icity passengers handled by all mon carriers. By 1965 we fow that three out of every five intercity passengers will be han in the air. Some forecasts are higher than this. For example CAA predict that by 1965 the ume would be somewhere bet 42 and 56 billion. The mid-point that estimate would be 49 bi

(Continued on page 41)

ULY, 1957



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water cooler, that is!

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The Calumet Area—Boom or By-Pass?

By JUNE BLYTHE

Chicagoland's last sizeable vacant land area has enormous

potential IF . . . ; here's what the "ifs" involve

O RESPECTABLE Chicagoan would be caught these days without his prescribed pair of ose-tinted glasses. Optimism is allervading in the Chicagoland air, and, indeed, most of it would appear istified.

But we could miss our date with estiny, warns the former Chicago lan Commission (now called the epartment of City Planning), unss we speed the substitution of pades for pink spectacles and work to heavier calluses on the palms of body politic.

In an interim report on what all be dubbed Chicago's last great dustrial frontier, the Commission of documents the enormous potenti of "The Calumet Region of Chigo"—and the resolute steps that ust be taken if the region's promise not to be by-passed.

Comments Leverett S. Lyon, exutive director of the Northeastern inois Metropolitan Area Local overnmental Services Commission: o anyone interested in the Chigo Metropolitan Area, this report all be welcomed as a thoughtful, refully prepared, well documented tement relating to a section of the which is at the moment attracting more attention than any other. The study is helpful in recognizing the problems which will accompany the industrial growth forecast, and in implying, at least, that the solution of these problems will involve costs."

The Calumet Area, as defined in the report, extends from Chicago's Seventy-ninth Street to the south Cook County line, and from Joliet to the eastern limits of Gary, Indiana.

Here lies the last sizeable vacant land (5,100 acres) within Chicago suitable for industry, together with 10,000 similarly appropriate suburban acres. Here, now, is found the heaviest concentration of industry and of manufacturing employment in the entire metropolitan area.

Transport Complex

Here is being built an unequalled transport complex of deep-water, barge, rail and highway facilities, opening mid-America to the world. Here is virtually unlimited water for industrial processes and cooling—and plant sites accessible to both deep-water and barge traffic. Here can be located users of basic materials close to their sources of supply—primary metals, petroleum and coal products, chemicals, and stone, clay and glass products.

As for markets, the report notes that the "rich hinterland" of five mid-west states surrounding Illinois contains 29 per cent of America's manufacturing labor force, the largest regional concentration in the nation, and adds:

"Lying at the heart of this area of high production and consumption as well as straddling the transcontinental transportation routes to the rapidly growing western states is Chicago in an unparalleled position for the production and distribution of goods." By 1970, predict the planners, new industrial development in the Chicago portion of the area will utilize some 1,000 acres of now-vacant land, plus another 500 acres of filled land in Lake Calumet.

Using an "employment density" yardstick derived from recently built plants, the report makes admittedly conservative projections for job and population growth. Within Chicago, from Seventy-ninth Street to the city limits, 35,000 new industrial jobs are forecast by 1970, plus 60,000 service or non-basic industrial jobs, generating a population increase of some quarter-million persons. This is in addition to the on-going expansion in the larger portion of the Calumet Area lying outside Chicago.

The Calumet Area now employs one out of every five manufacturing

General view of the Lemont Reery of the Pure Oil Company. Pressure rage sphere appears in foreground

workers in the six-county (Cook, Du-Page, Kane, Lake and Will Counties in Illinois, Lake County in Indiana) Chicago Metropolitan Area. Analyzed by industry, the Calumet Area employs 84.5 per cent of the six-county workers in primary metals; 72 per cent of those engaged in petroleum and coal products; 30.2 per cent of those in chemical and allied products; 29.6 per cent of those in stone, clay and glass products; and 21.3 per cent of those in transportation equipment.

The area's resident labor force of 538,000 (1955) presently is concentrated in south Chicago and in north Lake County, Indiana. But since 1950, the greatest growth has occurred and is expected to continue in south Cook County and the southern half of Lake County, Indiana. More definite projections must await a Metropolitan Economic Base study, strongly urged in the report, and which Commissioner of City Planning Ira J. Bach asserts is being launched.

Many Challenges

But even the cautious projections contained in the interim report, when viewed in the light of existing facilities and the work and planning recommended to expand them, prove highly challenging. Says planning consultant Harold M. Mayer, of the University of Chicago: "The report is the outstanding publication put out by the former Chicago Plan Commission in recent years, and if given the consideration it deserves, it should be a milestone in basic research prerequisite to a comprehensive planning program for the metropolitan area and the city."

Most pressing requirement for the industrial boom to which Calumet is uniquely suited is solution of the several problems besetting portions of its vacant land. For example, land especially appropriate for wateroriented industry, bordering Lake Calumet and the Calumet-Sag Channel, often requires a moderate amount of fill. These and other sites particularly suited for industry, such as along railroad rights-of-way, may be zoned for residential use. Conversely, land at the periphery of communities, sometimes far from freight or dockage facilities, may be zoned for industry. Chicago's new zoning ordinance partially meets some of

the industrial land use needs within the city, but the report stresses that plant-site requirements throughout the Calumet Area must be met by an area-wide land use plan.

Other tracts are plagued by clouded titles, obsolete platting or tax delinquency; still others involve railroad ownership entailing rail tonnage requirements; many, including some in Chicago, lack local utilities. Others lack access, or suffer from conflicts between street, rail, and water routes.

Air Pollution

Air pollution, which the report emphasizes "heavy industry is by no means solely responsible for," blights some industrial as well as residential sections. Only two Calumet communities conduct air pollution control.

Factors such as these could militate especially against "light" and "medium" industry as development accelerates and desirable sites become less abundant. Yet these are precisely the kinds of industries the Calumet Area should seek aggressively to attract, the planners maintain. Beyond the obvious locational advantages close to sources of supply, lighter industries would supply buffer zones between heavy industry and homes, plus the economic advantage of diversification of employment.

The report urges area-wide cooperation on air pollution control, installation of utilities and other public improvements, and elimination of rail-water-vehicle traffic conflicts. Early action, plus a "concerted effort to publicize and promote the area," could avoid what the planners warn is a possibility of "the area never reaching its full potential"

The three current major waterway improvements — St. Lawrence Seaway, Lake Calumet Harbor, and Calumet-Sag Channel — and general metropolitan growth will reinforce each other, says the report. Historically, the Calumet Area's development has been tied to water transport and dockside locations, and even prior to the improvement projects, area harbors and waterways enjoyed rapidly growing tonnages.

In the ten years from 1946-55, the Sanitary and Ship Canal and the Calumet-Sag Channel both trebled their traffic. The Chicago River and

its two branches showed 50 per coincreases; Indiana Harbor doub its traffic; Gary Harbor rose fr 8.6 million tons to 10.5; Buffing Harbor from .87 million tons 1.29; Calumet Harbor and Riv 13.8 to 24.7; Lake Calumet, (1951) to 1.58.

The Port of Chicago (as define by U. S. Army Corps of Engine excluding the three Indiana H bors) handled 40 per cent, or 214,0 tons of all Great Lakes overseas g eral cargo in 1955. Of this, o three-fourths was handled by Ca met River and Lake Calumet 1 minals. Since then, the first \$24 n lion stage of Lake Calumet impro ment has been completed, and sta two should be underway within months, estimates Maxim M. Coh Chicago Regional Port District g eral manager. Future developme could provide up to 13 slips, vas increased storage and transfer fac ties, a 100-acre tank farm, and up 1,800 acres of man-made land.

The volume of future traffic the will flow through Chicago-area pocannot now be determined. It was depend on such variables as maximum capacity of the new Lawrence Seaway, tolls, tariffs, a available vessels. The upper-licapacity of Lake Calumet Hart in turn, will be affected by the Cumet River's traffic capacity, and some degree by the water-land to conflict of increased bridge opings.

Coordinate Planning

But in view of the growth tree in water traffic already evident, report recommends "coordina planning of port and waterway velopment in metropolitan Chic which enlists the cooperation of States of Illinois and Indiana, Chicago Regional Port District, city of Chicago, and suburban incipalities."

Specifically, the planners recomend a continuing inventory of a and waterway traffic as compared capacity; possible full operation Navy Pier and Chicago Harbon supplement. Lake Calumet; resertion by the city of Chicago of 1,100-foot shoreline just west of Indiana state line for a possible ture lake front harbor; and a setion to the problem of barge me

(Continued on page 26)

IULY, 1957

Chicago Students Earn While They Learn



On-the-job training at Abbott Laboratories during her senior year in high school enabled this young lady to become a private secretary six months after she became a full time employe

Unique partnership between city high schools and local firms gives seniors on-the-job training

> By PHILTHIRSCH

ORK-STUDY," a unique partnership between Chicago business firms and ducators, is helping several hunged of the city's high school udents prepare for the day when must leave the cloistered classom forever and begin the task of ming a living. By giving the idents a hand up the success ladr, the companies are helping themolyes as well.

Local firms participate in the rk-study program by employing e students part-time during their st year of high school. Since 1952, ien the plan was launched, close 3,000 seniors have received onle-job training. The positions volved range from typist to lab Chnician, draftsman to social orker. More than 200 firms and ganizations have participated in b program. They include Armour Company, Commonwealth Edison, (ntinental Illinois National Bank Trust Company, U. S. Treasury, buse of Vision, Valve & Primer rporation, and Central Steel & re Company.



Typical of the detailed on-the-job training provided by most firms participating in the work-study program is this class in meat packaging terminology conducted at Armour & Company

The attitude of both the students and their employers to the workstudy idea is indicated by a few figures: the first group consisted of 124 seniors from 18 high schools, who were employed by 44 companies. During the second semester of the present school year, nearly 400 students joined the work-study program from 32 schools. They were employed by 70 companies.

Virtually every participating firm has found that the students like their jobs and surroundings so much they stay on as full time employes after graduation. The youngsters are top-notch workers generally—many have higher-than-average IQs, while most possess superior motivation—so the program often enables a company to skim the cream

(Continued on page 38)

Chicagoland: Atomic Capital o

Commonwealth Edison's Dresden Plant another area first in atomic



Admiral Lewis L. Strauss

HICAGO is more closely associated with man's harnessing of the atom and the development of the peaceful uses of atomic energy than any other city in the world. As such it has a good claim to the title of the atomic capital of the world

It was in Chicago that Enrico Fermi, true architect of the Atomic Age, lived and labored, where he and his wife became American citizens and where death brought to an untimely halt his enrichment of human knowledge. One of the marks of Chicago's fame is inscribed on a bronze plaque fixed to the wall

of what was once a stadium on the University of Chicago campus. It says, in simple eloquence: "On December 2, 1942, man achieved here the first self-sustaining chain reaction and thereby initiated the controlled release of nuclear energy."

It is the birth certificate of the atomic age — born in secrecy in Chicago that December afternoon of union between war and science, and under circumstances which were most inauspicious for its development in a climate of free enterprise. However, it is not Fermi's great triumph alone which identifies Chicago with the birth, adolescence, and approaching maturity of the peaceful atom.

One of the world's greatest research centers in developing the peacetime applications of atomic energy—the Argonne National Laboratory operated for the Atomic By

ADMIRAL LEWIS L. STRAUSS

Energy Commission by the Unsity of Chicago—is located in metropolitan area of Chicago. It the Argonne Laboratory which duced three of the five reactor cepts included in the Commissifirst civilian reactor development of the gonne projects was the boiling whereactor, which developed the extechnology for the nuclear peplant that is to rise at Dresdet.

The first usable amounts of tric power from atomic energy. produced in a reactor designed; built by the Argonne Laborasi That event occurred in Decem 1951, when more than 100 kilov of electricity were generated in experimental breeder reactor at Commission's National Rea Testing Station, and used to open pumps and other equipment light the reactor building. It w boiling water reactor - using same basic principle as the Dre plant - which in the summer 1955 became the first to su nuclear electric power to an en community. Power from a reaknown as "Borax 3" - again product of the men of Arga Laboratory - supplied enough tricity to serve the town of A Idaho.

Fermi's original "pile" under stands at Stagg Field, when the trol rods had been removed pletely, provided barely encepower to serve a flashlight to "Borax 3" provided enough tricity for a town of about 1,200 sons. The Dresden Nuclear Pillant, when it comes "on street

The author is chairman of the Atomic Energy Commission. This article is a condensation of his address at a Chicago luncheon sponsored by the Commonwealth Edison Company. The luncheon commemorated the start of major construction on Edison's Dresden Nuclear Power Station.

the World

oower development

ith its capacity of 180-thousand lectrical kilowatts, will provide mough nuclear electricity to serve 50-thousand people — their homes, dustries and transportation facilies.

Chicago is entitled to particular ride, too, in the atomic-powered (Continued on page 45)



Pouring concrete in foundation of Dresden Station. The country's largest nuclear power reactor is scheduled for completion in 1960. Edison will own and operate the 180,000 kilowatt plant. General Electric is the builder



The first of 20 steel columns for the 190-foot steel sphere was set in place at Commonwealth Edison Company's Dresden Nuclear Power Station, 50 miles southwest of Chicago, on June 12. Assisting workmen guide column are Francis K. McCune (left), vice president of General Electric Company, and Willis Gale, chairman of Commonwealth Edison

Raytheon Manufacturing Company has developed a process for preserving foods. Under vacuum at below freezing temperatures, the food is preserved with the aid of radar microwave energy. After preserving process the food can be stored indefinitely at room temperatures. Above: Lobster tails after treatment



Paul W. Goodrich, president of Chicago Title & Trust Company (left), presents a plaque to Arthur T. Mc-Intosh, Jr., to mark the fiftieth anniversary of Arthur T. McIntosh & Company

Busines



Not a man from outerspace, this is the Army's new E-13 min protective mask, which is all in one piece, eliminating the hose canister. It's a development of Mine Safety Appliances Com

Chicago Helicopter Airways' newest helicopter. It has a cretwo and a seating capacity of 12. It is now in daily use or regularly scheduled shuttle runs between Chicago's three air



Highlights



laturally after they felt the pulse of Chicago ("Miss Chicago" hat is), these medical students from five different U. S. cities lecided that the 1958 convention of the 50,000-member Student merican Medical Association should be held in Sandra Stuart's ometown, Chicago

uided by signals from a stevedore boss, an English-built Ford or is swung ashore at Calumet Harbor. It is one of 88 cars in the first shipment of made-in-England cars to arrive via the Il water route





Skilled human fingers wire small, circular core units that serve as "nerve" cells for a new switch that is expected to stimulate assembly-line automation. Developed by Minneapolis-Honeywell's Doelcam Division, the laminated iron cores replace bulky amplifiers in the switch's magnetic circuitry



Taking part in the recent ground breaking ceremonies for the one million dollar addition to the Metals Research Building at Armour Research Foundation of Illinois Institute of Technology are: left to right, Robert A. Lubker, manager, metals research department; Dr. Haldon A. Leedy, ARF director; Dr. John T. Rettaliata, IIT president; and Alex D. Bailey, vice chairman of the IIT board of trustees

COMMER!



A noiseless electronic refrigerator, with no moving parts, has been developed by scientists of the Radio Corporation of

Electronics—the Magic Ke

The pushbutton world of tomorre of the amazi



Panels no thicker than window glass line this room, providing light from man's newest and most promising light source — electroluminescence, a Westinghouse



A home television tape player (center), which reproduces pre-recorded black-and-white television selections on a standard TV set, another RCA development

URING recent years many products have been produ by the electronics industra color television, electronic compuclosed-circuit television, direct of ing of telephone numbers, and m others - but experts in the field this is only the beginning.

For example, Bell Teleph

scientists predict:

"Ultimately, at the time of bu each individual will be assigne telephone number which he will through life just like his name. telephone, similar to a watch, be attached to his wrist. The fa part will be a transmitter-spea and the rear a three-dimensional ture of the individual to whom will be talking. At any time w he wishes to talk with anyone in world, he will pull out the de and punch on the keys the num he wants. Then, turning the de over, he will hear the voice of individual he is calling and seeface on the screen - in color an three dimensions."

Forerunner In Operation

A possible forerunner of sur telephone, the "Data-Vision," been installed by Bell in the Pa delphia National Bank to em branch tellers to compare visually signature on a check presented payment with the master signa

The author is executive vice pres of Television Shares Management Cortion. This article is a condensation recent address before the Central Club of Chicago.

to a New, Wonderful Life

s taking shape today; here are some hings to come

Bq

PAUL A. JUST



Paul A. Just, executive vice president of Television Shares Management Corporation

le in the bank's main office more han a mile away.

The existence of such an instrunent of communications, supplantng the existing telephone and other redia, will completely change our vay of life - both in business and at ome. But that's not all that elecronic scientists have to promise for he future. We've already heard bout some of the things to come ot so long ago RCA announced the oiseless electronic refrigerator, with o moving parts; electronic air-conitioning; and an electronic tape reorder to bring TV viewers their avorite television programs when ver they want them. Westinghouse nnounced, around the same time, ne application of electroluminesence which would light up homes

from wall panels, rather than from conventional lights and lamps.

But beyond these things, the scientists promise us that the home itself will be automated, through electronic devices and controls. In fact, they say the home of the future will clearly have a communication center. This will involve a panel control board similar to those now used to control the gigantic automation machines in auto and other factories. It has already been given a name — the Communicenter.

The techniques for such a Communicenter in the home are now known. Here is how the president of the American Institute of Electrical Engineers describes its function:

"Imagine that tomorrow's plan for the day is about to be set up by

the usual Adam and Eve team. Susie is to wake at 7 with sentimental chamber music. Junior must be blasted out with a stirring martial air. Aunt Maggie's window must be down at 4:15 a.m. and her coffee must approach boiling at exactly 6:45. At breakfast, Susie's facsimile news must be set for her fashions; Junior's for the baseball scores. mother's for the social items. Mother's car must be warmed up at 9, the garage doors opened and the snow off the driveway. And so on - until Pop's electric blanket goes on at midnight and the catejector has done its duty. That complete program will be put on a recording tape, buttons pushed, and the day's program is taken care of."

(Continued on page 43)



rapped to this soldier's hat is the smallest walkie-talkie FM radio er built. It provides two-way communication over a quarter-mile



Bell Telephone Laboratory technician demonstrates an experimental model of picture-phone



Above: "Study"; right: "Forms"; both abstract paintings in oil and encaustic by Arthur Rissman. They are part of the exhibit "From the Executive's Easel." Mr. Rissman has exhibited in other shows including a one man show as Painter-of-themonth at the Esquire Theater

From the Executive



Below: "Interrogation" and "Organ Grinder"; both oil paintings are by Ang Poulakidas. Though he has been painting for only a short time, he was we first prize and honorable mention in the Chicago Bar Association art exhibit





Easel



At the Chicago display of the exhibit are, left to right; Frank Holland, art critic of the Chicago Sun-Times; Aaron Scheinfeld, chairman of Manpower; Elmer L. Winter, president of Manpower; and the three Chicago artists, Milton P. Mathewson, Arthur Rissman, and Angelous Poulakidas

By TOM CALLAHAN

n framing an artist, art hath thus decreed,

o make some good, but others to exceed.

Pericles Act II Sc 3 L 15

THREE Chicago executives — a merchant, an attorney, and a hotel sales manager—have taken sue with the above lines written y one or both of the two English oets, William Shakespeare and corge Wilkins (historians have not een able to agree on which one rote Pericles or if they collaborated n it). For the trio have proved temselves "good artists" and at the time "to exceed" in getting temselves away from the strains of teir successful business careers.

The three Chicagoans are Arthur. Rissman, president of Jerrems, ien's clothing stores; Angelos Poulkidas, attorney with McNamara, oight, Greene and Nordstrand; ind Milton P. Mathewson, sales ianager for the La Salle Hotel. The proof of their art ability is contined in six pictures now on a two-iar, cross-country tour, in a 38-picture exhibition called "From the xecutive's Easel."

Sponsored by Manpower, Inc., naonwide temporary help service, and circulated by the American ederation of Arts, the exhibition



Above: "Shipwreck"; below: "Sundown"; both oil paintings by Milton Mathewson. He has had many private shows and has exhibited at the Palette and Chisel Academy and also has had a one man show as Painter-of-the-month at the Esquire





A. M. Castle & Company's new warehouse and office in Franklin Park



The grinding department with the 96" Blanchard in the background

A. M. Castle & Company, steel distributors, has completed its move from its crowded Chicago headquarters on Goose Island to its new 400,000 square foot plant in Franklin Park, Illinois (above). The new building is constructed of brick and has stainless steel sidings and translucent plastic panels. It consists of five bays, four of which are 100 feet by 700 feet and one which is 110 feet by 700 feet. In addition the company has enough additional land area to duplicate present facilities. In the new quarters, A. M. Castle is offering a new service, a complete grinding department. It is pictured above—on the left are two 48-inch grinders and in the background, a 96-inch Blanchard grinder, the largest of its kind made. The 96-inch grinder will surface grind lighter plates up to 84 inches wide and ¾ inch plates and heavier plates up to 96 inches wide.

offers proof that business and professional people are producing exceptional work while utilizing painting as a hobby to escape from the tensions of their business activities. It was conceived by Elmer L. Winter, president of Manpower, Inc., who is also an amateur painter and art enthusiast.

Having derived so much personal fulfillment from the expression of his creative talents as a "Sunday" painter, Mr. Winter reasoned that by bringing together the top examples of the work of similar "Sunday" painters as a dramatic example of what can be accomplished, others might be encouraged to follow suit.

"In the world of art the executive can find a refreshing freedom," says Mr. Winter, "Whether he paints realistically, or chooses to delve into the abstract, there is no one to check or restrain him by reference to group decision, manuals, or operating memoranda."

When do these busy men find time to paint? Attorney Poulakidas paints

after midnight when his familiasleep. He reports that frequehe gets so carried away that paints all night. He has never any formal art training and uses available corner in his apartmer his studio.

Merchant Rissman, on the ohand, had planned to be an teacher and has had a good dea art instruction. The deaths of father and brother forced him the family business. However, plans his work schedule so that can paint perhaps two days a vin his studio away from his he He also utilizes any free time on frequent business trips for sketch

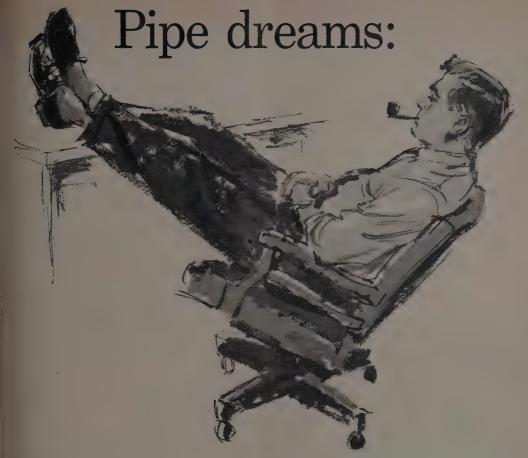
Hotel sales manager Mathevalikes to paint portraits but find difficult because he does not has studio. As a result he does mediandscapes and frequently passenes around Galena, Illini Rhode Island, and Quebec, Can't He has been painting for my years and as a youth won several scholarships. His personal economic situation forced him (some 30 yago) to enter the business was which he did with a job at LaSalle Hotel and has been the ever since.

38 Paintings on Display

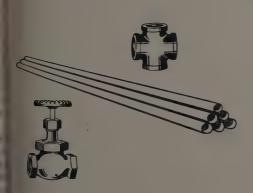
The exhibition — From the Futive's Easel — contains 38 paints and represents the hobby work cengineers, physicians, attorneys, other nonart professionals and frexecutives. A jury of seven art seum directors selected the paint in the exhibit from a collection entries submitted from a ll. America. It will be shown in nicities around the country in backgramment stores, lobbies of buildings and anywhere else the large number of lay people can wit.

In the words of Frank Hollart critic for the Chicago Sun-Ti:
"As might be expected, the samples from highly profession work to the very naive, primitype; and all is interesting."

Interesting to those who view exhibit and thereby gain free from some of their own daily sions; and perhaps, inspirational others who might acquire a bis and palette of their own and everally become good artists and ceeders" themselves.



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Calumet Area

(Continued from page 14)

ment from the inland waterway to the Indiana harbors.

"Very pertinent" to Lake Calumet Harbor's future growth, says Port District Manager Cohen, is the planners' recommendation for additional service by more railroads. The west and south sides of Lake Calumet are served by the Chicago, Rock Island and Pacific, but the east side presently has no rail service. The report's section on transportation facilities and relation to land develop-

ment terms "imperative" an early decision on the applications of the several railroads seeking to provide access and switching services "if the full potentialities of the port development are to be realized."

"A review of the boundaries of the Chicago Switching District.... with a view toward their revision and extension," also is recommended. Citing the Switching District's advantages to industrial development, the report points out that its boundaries

were established many years when industry was concent much closer to the heart of Ch. and have not been materiall vised. Growth outside the disince has been extensive, le outer portions of the Calumet, beyond district benefits, so that district constitutes an "art force" tending to constrict are velopment.

However, many kinds of tries increasingly are less depe on rail access, the report not illustrated by the fact that in American railroads, for the time, carried slightly less than the total ton-miles of freight ment. Though rail freight ha shown an actual decline, the in ratio dramatizes the growtrucking. "This places even g stress than before," the pla comment, "upon the provisi good local access streets and ways, for expressways, by their nature, cannot provide access

Heavy Development

Heavy development, both trial and residential, is pre along such expressways as the ana Toll Road eastward to La the Calumet Expressway, and merous locations along the Tr Toll-Way, such as Thornton, ham, Blue Island, Alsip, an cago Ridge. These and other met expansions could swamp the report terms "a pigmy stre transit skeleton."

A study of Chicago's Lake met Area street traffic, for exfinds many streets and intersalready perilously near or their capacities. By 1970, add capacity will have to be provie more than 13,000 new east-whicles per hour (one way) peak hour, and almost 16,000 south vehicles per hour (one For purposes of comparison, port notes that 16,000 vehicl stitute more than eight tin present load on Doty Avenue

Far from solving this coming fice flood, such new expressions South Route, Calumet Skyws Stony Island Improvement with deal loads which cannot yet be me Expressways in themselves gadditional traffic. The studigected increases are based solving probable industrial and probable industrial and probable studies.



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velopment within a cordon : around Lake Calumet, and di include even greater increase pected to ensue from sub growth.

Mass transit provisions wi quire adaptation to such Cal Area characteristics as scalplant locations, and feeder busserve existing suburban railare suggested as one solution. ers include express bus lan highways; the rapid transit n strip already being considere the South Route Expressway extension of Chicago Transit thority rapid transit service so Sixty-third Street to the Lakemet area.

U. S. Civil Air Traffic Fo indicate that Chicago will n third airport of interconticlassification, report the plawho suggest that the new facilicated south of Lake Calun complement O'Hare Field conth and Midway Airport west. The new airport, they tain, should be approached metropolitan basis, with costs by municipalities, and suland to meet future needs re "considerably before balance ration is reached at existin ports."

Tight Labor Market

In an earlier report on C Industrial Development, the Commission listed the tight market as a limiting factor to potential industrial expansion metropolitan area. More rethe Illinois State Employmerice cited the housing short the metropolitan area's three-counties as a factor limiting recruitment.

Pointing to the vigorous power recruitment program Chicago Association of Con and Industry, the report Thomas H. Coulter, Chief tive Officer: "Unless there ar fied workers here to meet in needs, this growth might choked off. The mortgage here have been advised to i ately find money to step up t dential building rate V continue to grow without the ple, and we can't get the pec less we are prepared to have ing, schools, and other facil them."

Medium" projections indicate a cago-area growth of about 1.2 ion persons by 1970, for a total 7.19 million compared to 5.98 ion in 1955.

the Calumet Area's share of this ease can be considered realistive in terms of reasonable, maxim journey-to-work time. To this, the report maps a "Thirty-Min-Travel Zone," which includes 90 cent of employes' homes in Calculustries sampled for the ty. The Thirty-Minute Zone exclusive roughly from Chicago's North nue, southwest to Tinley Park, and to Crete in Will County, and theast to Ogden Dunes just bed Gary, Indiana.

Population Gain

the quarter-million population estimated to generate from new ago-Calumet industry represents at one-fifth of the total predicted topolitan growth by 1970. The mers expect that about half this ter-million will live in Chicago about half in the suburbs, but virtually all will reside in the ty-Minute Zone.

o help anticipate the impact on ing housing and community faies, and formulate suggestions orderly expansion, the report together exhaustive data on affected Chicago neighborhoods suburbs, and on the characterof present residents. Among lindings, freely summarized, are: the Calumet Area has a much the concentration of manufacing workers than the rest of the copolitan area.

he Calumet Area contains diverof income, including some of owest incomes of the city and rbs, as reported by census tract. he Thirty-Minute Zone, in 1950, 43.8 per cent of the metropolarea's population, and, 88.8 per of its nonwhite population.

areas, Area I, north of Seventyin Street, contains 75 per cent of one's rental units. It also has lowest median rentals, the larglamber of sub-standard dwelling the lowest median incomes, three times the population of ther divisions, or 62 per cent.

to the city limits, has several borhoods with high percentof rental units, higher incomes







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CHICAGO HEART ASSOCIATION

69 W. Washington St. Chicago 2, Ill. than Area I, and fewer neighborhoods with large numbers of substandard dwellings. It contains 17 per cent of the travel zone's population.

Area III, south Cook County, has only eight per cent of the zone's population, but has shown the fastest growth — an increase of 44 per cent in dwelling units since 1950, more than double any of the other three Areas. Median incomes are slightly below those in Area II.

Area IV, Lake County, Indiana, has 13 per cent of the zone's population, with median incomes comparable to Area III. Areas III and IV combined show 22 per cent substandard housing, compared to 19 per cent for the total metropolitan suburban ring. Only 2.3 per cent of dwellings built in these two areas from 1950-55 were multiple family, or presumably rental units.

Live in Area I

Based on wage levels, ethnic background, vacant residential land and exisiting housing supply, the planners estimate that 30-35 per cent of the new quarter-million persons will live in Area I, north of Seventy-ninth Street; 20-30 per cent in Area II, south of Seventy-Ninth Street; 25-30 per cent in south Cook County; and 15-20 per cent in Lake County, Indiana. (As throughout, these projections do not include suburbanjob population gains, or normal accruals from births over deaths.)

Thus, the planners conclude, the heaviest impact on rental housing will be felt in the areas where the most rental housing exists (in Chicago and especially north of Seventyninth Street.) Workers able to purchase single family homes will account for the estimated suburban residential location. The study notes Illinois Department of Labor figures reporting the pay scale of almost 90 per cent of the Calumet Area labor force ranged from \$88 to \$113 average weekly earnings in August, 1956.

From this analysis the planners list among the chief development needs:

"An increase in the supply of housing, both rental housing and owner-occupied housing, for all income groups.

"A realistic examination of redevelopment efforts, urban renewal efforts and possible rehabilitation programs.

"Adequate standards for the community development to pronecessary schools and other conity facilities and to help prothe creation of future slums."

"An appraisal of the tax problems that will be accelerated Calumet Area development."

Substantial agreement with and other findings of the repvoiced by many Calumet le Says Hjalmer Johnson, Inlanc Company's vice president of manufacture, "the report's estare realistic — there is an acute ing problem all over the Ca Area."

Pullman Trust and Savings. president Donald O'Toole ments, "I have never seen s good job of finding out what veloping in an area, and we ar much in agreement with the c sions reached. The suggesting bring in lighter manufacture: cially steel-using industries, is good one; so is the idea of pla now for a third airport. We spend a tremendous amount c and effort to obtain a central agency and establish a basic and land use plan for the area."

The first step toward up zoning in Cook County is unwith a \$100,000 zoning study county zoning affects only uporated areas, and the munties, who author their own ordinances, reflect varying at

For example, Lynn Brenne dent of the voluntary Regio sociation of South Cook Crepresenting 15 communitiserts, "Some of the areas alocalumet-Sag Channel do no pose to become heavily indized. And there appears to good deal of educated different opinion on such zoning."

Housing Needs

Regarding housing needs, maintains that many munici "rather resent the implication the residential character of Cook County must be down to take care of the new labor. He underscores the municipase problems raised in the by asserting that lower-cost hoosts municipal service cost lation to tax revenues.

There is general agreemen ever, Brenne states, on the n

all planning, which his associahas neither funds nor staff to form. Area communities vigory supported in the legislature Randolph Commission bill for blishment of a metropolitan

ning agency.

Lake County, Indiana, the Pur-Calumet Development Foundaprovides a source for area plang assistance in addition to ying out its initial housing reelopment program in cooperawith East Chicago. The housing gram will provide 1,900 lowerrental units, with the first, 86tment structure now nearing pletion. Some 600 sale homes are contemplated.

sa reports the Lake County area not appear ready to embrace and planning as such, but the dation is engaged in numerous fic planning jobs under con-

with municipalities.

Back of Yards Council

Chicago, a voluntary neighborl organization, the Back of the s Council, is moving to test a r-cost single-family house deed by Building Commissioner ge L. Ramsey, and cited in the met Area study as one possible ion to labor force housing s. Ramsey has contributed his s, and the Council is working architect Frank J. Lapasso on ruction of six adapted designs. truction costs, Lapasso believes, be held around \$10 per square or some \$12,000 for the most st of the three-bedroom homes, sive of land and fees. The have been adapted to fit the 25-foot lots predominant in of the Yards, and Joseph B. an, council executive secretary, they also may help solve the vide problem of residential use arrow vacant properties.

long Chicago's official agencies, eport's implications for re-exittion of urban renewal efforts is housing supply appear to o recent for progammatic extens. The Community Conserband Saura will be allocated of four conservation projects ald committed and will permit ion of programs in eight to Iditional neighborhoods. "We

(Continued on page 41)



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Industrial Developments

. . . in the Chicago Area

URING the month of June, there were 24 industrial development projects announced totaling 136,000. These projects included and expanding industrial building and acquisitions of land or dings for industrial purposes. The of 1956, the developments butted to \$26,494,000. In the first of 1957, there have been 156 lects announced, totaling \$100,100, while in the first six months 356, there were 190 projects tolg \$381,814,000.

the 6-month total for 1957 is ter than seven of the preceding over years of 1946-1956. It was eded only in four years — 1951, 1955 and 1956. The last two distribution of the desired which will not be bleted until 1958 or 1959. Therefin the industrial construction tity, the Chicago Metropolitan is experiencing a very high to for construction.

mmons Company, New York manufacturer of the famous tyrest mattress, the Hida bed, other sleeping equipment, is ang a large new plant in Mun-Ind. (near Gary) which will in 369,000 square feet of floor This large unit is expected to mpleted about the end of the and is being erected by the Gompany.

l'and Container Corporation dianapolis, Ind. will erect a mandata containing 140,000 square et floor area on 35 acres of land Cicago Avenue and the Chicago Western Railway Company's in Leyden township. The firm actures corrugated containers ill employ approximately 250 ins. On the completion of the 12 box plants and two corrugated mills east of the Mississippi River.

- Pittsburgh Plate Glass Company has started construction on a large warehouse and office building at 48th St. and Kilbourn Ave. The one-story building will contain 125,000 square feet of floor space, and is specially designed for the distribution of the company's paint and glass products. The building will be located on a five-acre tract fronting on Kilbourn Ave. The company has recently concluded construction of another new warehouse building in Gary, Ind.
- Chicago Planograph Company, 1220 W. Van Buren St., has acquired a building of 46,000 square feet at 1112 N. Homan Ave., to which it will move its entire operations. The building stands on an 86,000 square foot site. William J. Krugly and Sudler and Company, brokers.
- Sunbeam Corporation is adding 45,000 square feet of floor area to its plant at 5400 Roosevelt road. The new addition will be used in the production of die castings and plastics moldings. The company is tooling up for the production of a series of new products, the precise nature of which has not been revealed.
- Motorola, Inc., 4545 W. Augusta Blvd., has acquired a one-story building at 4900 W. Flournoy St. which will be used for assembly purposes and warehouse space. J. J. Harrington and Company, broker.
- Water Tube Boiler & Tank Company, 140 W. Root St., has purchased a one-story building on nine acres of land at 2245 W. 43rd St. The newly acquired structure contains 122,000 square feet of floor

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Whitlock and Company, Inc.'s new office and plant at 7425 W. Lake Street Forest, Illinois

area, and will provide room for future expansion. It will occupy the newly acquired building after the first of the year. The company manufactures heat exchangers, steel tanks and stacks, and does plate fabricating. J. J. Harrington and Company, broker.

- Meat Industry Suppliers, Inc., 4300 N. Ashland Ave., is moving to the new plant it is building in Northfield. The company manufactures food and meat seasonings and will occupy the new 50,000 square foot building which is at 770 Frontage Road facing Edens Expressway. The firm's experimental kitchen will be visible from the highway. The company's affiliate, Tray Bon Corp., will also occupy the new premises.
- Murphy and Miller, Inc., 1326 S. Michigan Ave., is erecting a new plant in the near west side industrial district of the Chicago Land Clearance Commission which will contain 42,000 square feet of floor area. The plant is scheduled for completion in 1958 and will be located on Taylor Street between Jefferson Street and Desplaines Avenue. The company is a manufacturer of low temperature equipment and will move its entire operation to the new building when it is completed. W. Fred Dolke, architect.
- Western Rust-Proof Company, 2137 W. Walnut St., is erecting a 40,000 square foot plant on which

work will be started some time the beginning of the year... 60,000 square foot site from Waveland and Kilbourn at B. J. Felbinger and Companies.

- Chicago Bridge and Iron pany, 1305 W. 105th St., will the building at 9535 S. C Grove Ave, which is being to by Chicago Bridge's subsequare feet of floor space Cottage Grove plant. This unbe devoted to production an age. Guardite is erecting a square foot plant near Whill. Architect for expansion tage Grove plant is John S miec. Joseph Haigh and Sor eral contractor.
- Pullman Steel Warehouse a newly formed organizatio purchased two buildings con 40,000 square feet of floor are site of 5.5 acres at 108th St. Langley Ave. This newly steel warehouse company exphave room for expansion at site, which will call for add buildings at a future date. and Farwell, Inc., broker.
- W. M. Welch Manufact Company, 1515 Sedgwick Sacquired the five-story and barbuilding at 350 N. Ogden Avtaining 85,000 square feet darea. The company manufactures



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scientific apparatus, suppliesequipment. William J. K-Realty Company and Nicolson ter and List, brokers.

- E. J. Frank Manufacturing pany, 2700 W. Superior St., ha chased a 30,000 square foot bu at 5728 W. Armitage Ave., p which will be occupied immed for its general offices and The company operates a mashop. Van C. Argiris and Combroker.
- Joslyn Manufacturing and ply Company, 3700 S. Morgan adding 19,000 square feet of area to its plant. The company ufactures transmission line ment. It also operates other cago area plants in Franklin Joliet and has an operation in in Southern Illinois. Shaw, and Dolio, general contractors
- Johnson Fireproof Door pany, 3925 N. Elston Ave., is a 20,000 square feet of floor sp its plant for increased prod area. Melvin A. Nelson, are
- Rubank, Inc., 5544 W. Arm Ave., is adding 15,000 square floor area to its plant which v devoted to warehouse facilities company publishes books on instruction and school texts, stein and Sons, Inc., archites engineer.

Here, There and Everywher

(Continued from page 8)

ond century of service to C and the nation. Continental nation's eighth largest combanking facility and is a mover the 100 years of more the banks, savings associations and companies. The bank's 1956 report showed capital funds o million, deposits of \$2,496,0 and total resources of \$2,769,0

• Divers Make Sales Splash diving has given rise to a multion-dollar business, with equipmakers riding the crest of the gest wave of dollar volume, ing to Meinhard & Co., Inc. year, says the factoring firm, to of 400 different types of skin equipment will gross over \$1000.

ransportation

and Traffic



HE Interstate Commerce Commision, in its report and order in & S. No. 6646, Increased Demure Charges - 1956, authorized the ion's railroads to increase demurcharges on freight cars to \$4.00 day for each of the first four rgeable days and \$8.00 per day each succeeding day. Present derage charges are \$3.00 for each the first four days and \$6.00 for is succeeding day. By suspended ffs filed to become effective Sepber 1, 1956, the railroads prod to increase the current charges 4.00 for each of the first two days, 0 a day for the next two days, \$10.00 per day for each succeedday. The proposal of the carto reduce the number of canible debits which may be offset redits under average agreement four to two was rejected by the mission. The order authorizes railroads to include Saturdays, lays and holidays in computing urrage charges after a car has held four working days, or two beyond the free time. The rules tharges approved by the commiswill become effective July 1, on 10 days' notice.

A. B. Approves \$3.00 Penfor "No-show" Passengers: In ction attempting to resolve the how" problem that exists ng the U.S. domestic scheduled res, the Civil Aeronautics Board une 10 approved a three-part ctive measure proposed by the ne members of the Air Traffic rerence of America. In its ac-"the board approved the instituof a \$3.00 penalty on all pasrs who fail to use or cancel an he seat reservation. A charge of would be assessed on all pasis on any of the three U.S. licated helicopter airlines for er reasons. These penalties d become effective September

15, 1957, and expire no later than August 1, 1958. The failure of a passenger to cancel or use reserved seat space, the board explained poses a serious economic and service problem to both the airlines and all air passengers. Many times a fully booked flight will take off with empty seats that could be used by other passengers, because prior seat reservations were made by persons who failed to pick up or cancel their reservations. The remaining two measures proposed by the airlines and approved by the board are: (1) continuation of the minimum time limits within which passengers must pick up tickets or lose their space; and (2) requirement that passengers reconfirm intent to use reservations. under certain circumstances, at least six hours before scheduled depar-

• Postpone Iron and Steel Minimum Rate Order to August 15: The Interstate Commerce Commission has postponed from July 1 to August 15, 1957, the effective date of its order in MC-C-1510, Iron and Steel Articles - Eastern Common Carriers. and MC-C-1629. Iron and Steel Articles - Eastern Contract Carriers. In the order, the commission prescribed minimum motor carrier rates on iron and steel articles in eastern territory. It established rates subject to a minimum weight of 30,000 pounds based on a distance scale as the minimum reasonable rates and ordered that rates for any lower minimum weights be based on the same scale plus 15 per cent. Postponement of the effective date was prompted by a number of petitions which have been filed for reopening, reconsideration, modification and postponement of the

• Increased Parcel Post Rates Docketed as No. 32158: The Interstate Commerce Commission has

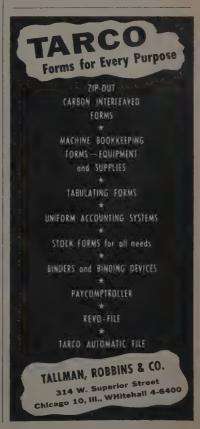


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docketed the petition of the Postmaster General for increases in 4th class (parcel post) mail rates as No. 32158, Increased Parcel Post Rates, 1957. The matter has been assigned to Commissioner Mitchell and the time and place of hearing will be announced later. The Supplemental Appropriations Act of 1951 requires that the Postmaster General, before withdrawing funds appropriated to the Post Office Department from the general fund of the treasury, must first certify that he has requested consent of the commission to establish rates on fourth class matter sufficient to pay the cost of performing the service.

• Senate Passes Bill to Amend Section 22 of Act: The Senate on June 12 passed S. 939 which would require that reduced transportation rates for the government, under Section 22 of the Interstate Commerce Act, be submitted to the Interstate Commerce Commission and there be open to public inspection. This would not apply, however, if a government agency indicated that disclosure of a Section 22 rate would endanger the national security. The House Interstate and Foreign Commerce Committee on the following day, June 13, voted to favorably report a similar bill, H. R. 3233, with an amendment which would exclude shipments of household goods from reduced rates under Section 22.

Chicago Students

(Continued from page 15)

off the upcoming labor crop, even before graduation day.

Commonwealth Edison Company has employed work-study students since the program began. To date, approximately 90 high school seniors have been shown the ropes in a number of its departments. At least 90 per cent of them have remained with the firm as full-time employes after graduation, officials report.

A work-study student who stays on after graduation usually is much

easier to train than a new embired from the general labor he adds. Reason: during their study days, students become far with basic company proce forms, and organization. They the job only about four hours five days a week, so it's not impossible for them to learn a details. But, as fulltime empthey have a considerable advaover beginners who start wit company in permanent positi

Continental Illinois Na Bank & Trust Company, at charter member of the prograi given part-time jobs to more 300 work-study students. "A n ity are now employed full reports Assistant Pesonnnel ager Mary H. Lindley. The a of the students is so high, she that the bank is able to pr them automatically as soon at graduate from school and st full time. In many cases, i long before they have received second promotions. Seven gir. came to Continental throug work-study program a few yea are now secretaries to vice dents. Some girls from last mer's group, meanwhile, ha come secretaries to second vice dents.

Work-Study Program

Abbott Laboratories and high schools located near its Chicago headquarters set up a study program modeled aft Chicago plan in 1953. Since three other schools have joined of Abbott's initial work-stucdents are now full time exc secretaries. When they I permanent employes after g tion, it took these girls only six months to win their preser Normally, explains Personn rector Earl M. Bauby, the comust spend three or four year. ing a girl before she's rea such a position.

Two other girls exhibited talent that company official couraged them to go to college is studying law, the other che The company is particularly of these students, since the no particular careers in mine they entered the work-studgram.

By giving each student



ational opportunity as well as Abbott - and most other firms ting the work-study idea - have zed important public relations fits. The student inevitably tells riends and family about the new which builds the employer's tation as a good citizen. Often, friends may be in the market obs themselves, and the buildplants a seed that soon bears . At one Chicago firm, a workstudent talked about her typob in such glowing terms that of her friends appeared at the onnel office after graduation. All hired, and are now turning in e-average performances.

Help-Wanted Columns

company, however, goes into program hoping to erase its indency on the help-wanted cols. Says one employment man"We hire hundreds of people it; we have an average of about work-study students per semesSmaller firms, although their onnel requirements are more est, are still in approximately same boat, since they take, illy, no more than a couple of its at a time.

in the other hand, most particiling companies are confident that
hiring picture is better off
twork-study than without it.
The is an advantage in getting
two employe with better-thanting motivation and/or intelliting that isn't shown if you consider
the numbers of individuals inthe numbers of individuals inthe Says Miss Lindley, of the
minental Bank: "We are conthat the direct benefits to us
ufficient to justify the extra
of training work-study stu""

lere is also the benefit to the ont, which is sizeable in many A typical example is one is lady who was able to correct of the of flaws in her typing lique with the help and engement of a supervisor at the any where she worked. The wisor not only spent a lot of with the girl on the job, but advised school officials, who table to give the student some of work in class. Significantly, tudent came back as a full many many after graduation and



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is now a top executive's private secretary. Files of the Board of Education are loaded with any number of similar stories.

Says William Reich, the Board of Education official who supervises the program: "Work-study provides practical on-the-job experience which the school cannot hope to supply on its own. Even more important, by being in a job situation, many students gain maturity. They become more outgoing, find added motivation, acquire neater work and personal habits, and think long and hard about careers. The direct

stimulus of a real job and a real paycheck is needed to generate these desirable attitudes in some students, even if the job is only part-time."

Enrollment in the work-study program is strictly voluntary. Any firstor second-semester high school senior is eligible, provided he isn't planning to go to college. School officials
feel that the student who enters the
business world right after graduation is the one who will benefit most
from the program, which is why
they impose the latter limitation.

Those seniors who volunteer are

interviewed by a school count who checks grades to make sure a job will not impose too mut a strain. Then the student's about and interests are analyzed to fin type of work that would be after these preliminaries, the dent is interviewed by one or companies with appropriate tions available. Personnel doments of these firms are free to accept or reject each applicat

Each company participating the work-study program determined what jobs will be assigned to students ahead of time, then of the approval of school officials educators' only major requires that each position must plas much study as work opports'

Each job lasts one semester weeks. During this period, counselors visit the companies how their charges are doing, student earns one credit for semester of work-study succe completed. While enrolled i program, he takes three majoriects at school instead of the four. Schedules are arranged afternoons are free for the Normally, work starts at about 1:30 p.m., and lasts until 4 or Students are paid standard for the time they put in.

Most Students Girls

To date, most of the studenhave joined the program have girls. The majority have been ployed as typists, stenos, bookkeepers, and clerks. A moof boys, however, have been ployed in engineering and disdepartments, as well as on the duction line.

Some of the jobs are rathe usual. The Rheumatic Fevisearch Institute, one of thorganizations of its kind in world, has employed five stituting the past three years—them girls—as lab technother students have explorediverse specialties as social worthe grinding of optical lense youngster who wanted to ha musician was employed library of the Chicago Symorchestra, while another oha job as a medical secretary.

Initially, department supe in some firms looked askance work-study program. They the



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y'd be flooded with a horde of ochewing, hair-combing teenrs. But now, these same superrs keep asking the company pernel department to send them
re students. In view of the fact
t training the kids imposes an
ra load on the supervisor, this
juite a testimonial to the success
the program.

Trends In Business

(Continued from page 10)

pared with our estimate of 45

In what do airline experts base se market projections? Comfort I dependability of flights has consuted a great deal according to Barkes. He adds, "The next son is speed. It was only in 1954 t regularly scheduled nonstop accontinental service was establed with an elapsed westbound in time of nine hours from New to Los Angeles. Now, within years of the beginning of that frice, the flying time will be reed by 40 per cent."

When jets are used by the dostic airlines here are some figures show how typical runs will be read in flying time. From Chicago New York, jets will take one hour minutes compared with 2 ars forty-five minutes now. Chicago to Los Angeles: jets, three lars 50 minutes; now, six hours 15 minutes. Chicago to Miami: jets, two hars 50 minutes; now, three hours innutes. Chicago to Washington:

one hour 30 minutes; now, two hars five minutes.

Calumet Area

(Continued from page 31)

te the Calumet situation under tew," says Conservation Commister Richard Smykal," and we are sidering conservation treatment tre."

he Chicago Housing Authority waiting interpretation by Philip Hauser, director, Chicago Compity Inventory, of the results of ecial U. S. Census Bureau survey netropolitan-area housing. "At present time," says General Willam B. Kean, executive director, are making an exhaustive study ew sites we would ask for under tent Congressional appropria-

tions. I, personally, have done a lot of thinking on the Calumet area and where structures would be necessary to mesh with the new influx."

The Chicago Land Clearance Commission's executive director, Phil A. Doyle, asserts that the agency is much interested in the Port area, but that the Commission's purpose of slum clearance focuses its major work on older, worn-out areas. With regard to new housing, he continues, "Practically all of the land sold by the Commission for redevelopment with housing is purchased by privately financed redevelopers. The generally prevailing cost of construction will inevitably determine the minimum prices at which dwelling units can be sold or rented by redevelopers."

Plan Commissioner Bach feels that "good strong enforcement" of Chicago's new housing code can hold the line against pressures for overcrowding, but concedes this could encourage suburban housing developments of minimal quality. He comments that the situation "shows we ought to have some metropolitan planning."

But O'Toole, whose Pullman

Bank reportedly is the largest mortgage agency south of Sixty-Third street, states emphatically: "I don't see any solution but low-cost rental housing. We cannot have any growth in this industrial area unless we bring in more labor, including common labor. If you have job opportunities and no housing, then no matter what building laws are passed, they will be violated. Our biggest single problem in selling homes now is finding people with adequate monthly income. If we are having this problem now, how will we meet an influx of lowerpaid workers?"

O'Toole, himself, who also serves as president of the influential Calumet Region Congress, provides part of the answer. "We all want this expansion," he says, "and we can all taste the prosperity. Our businesses are here, and we are going to remain here. I already have discussed some of the problems informally with other Calumet businessmen, and I am convinced that we can get together and help work out the solutions. And I want to emphasize that I am convinced they can and will be solved."



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Electronics

(Continued from page 21)

of the greatest economic and al stumbling blocks to mankind been the language barrier - in iness, in science, in social con-5. Much of the misunderstandand enmity existing between nais today can be traced, in part, the inability of people of one on to understand the people of ther whose language is different. y about 50 per cent of the ld's scientific papers are pubed in English, and that percentis now dropping rapidly. Probless than 60 per cent of the ld's business literature is pubed in English; and this percenttoo, is declining.

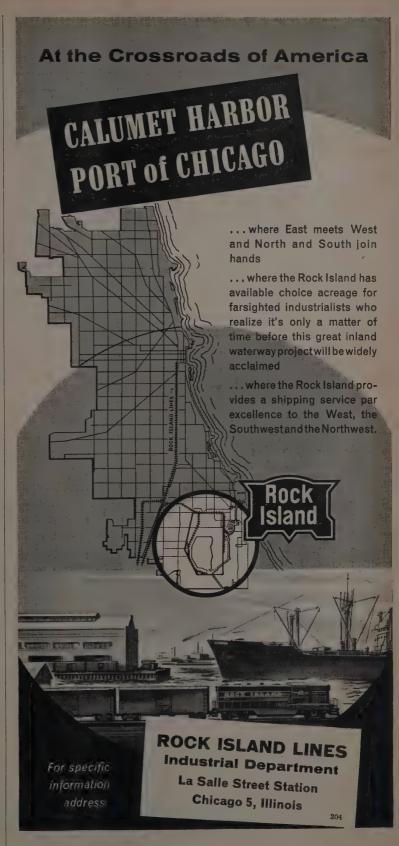
Lack of Knowledge

ow many fundamental scientific epts of great importance written ther languages have never been slated or read in the United es? And to what extent is our progress held back by our lack nowledge of what other people discovered or invented?

he requirements of translation by are on such a tremendous continuous — and they are rapidly multiing as backward nations progress at a mass production technique material translation is vitally needed if thines of communication between there everywhere are to be used. Why not, then, a machine anslate languages?

nat's not as easy as asking the tion, because here is what such chine would have to do: 1) The inal text - written or spoken be fed into the machine. 2) text must be then transcribed symbols or code that the mae can handle. 3) The meaning bear in mind the subtleties of lage - must then be translated one language to another. ter that, the translation must be ed back into conventional words nits in the new language. And, he translated text must be ented in readable or audible

n electronics accomplish this? scientists in this field say yes hatically. One of them last year cted that we shall see such a



machine translate within five years.

Can a human voice actually power a tiny radio transmitter — that is, a radio transmitter requiring no battery or other outside source of power, with all its power coming from the operator's speaking voice? The Army Signal Corps says yes. It has one in the developmental stage, which has already broadcast a man's voice some 600 feet. This could replace the walkie-talkie, which industry has found extremely useful for the taking of inventories.

A phonograph attachment now exists in a laboratory that transmits the output of a phonograph to a nearby radio receiver without any wire connections. And the Army now has portable battery-operated television cameras weighing 50 pounds for battlefield coverage. Think how such a device could be extended into sales promotion.

RCA is working on a new electronimage tube that will be capable of translating coded signals from tape, keyboard, or radio into clearly defined letters or figures at speeds up to a fantastic 100,000 words per minute for high-speed photographic recording. Ultimately, this may become a new technique for electronic typesetting.

M. I. T. has revealed an electronic device called the Versitron, which is so sensitive it can detect temperature changes of a fraction of a degree. At the estimated outside limits of its application, according to one of the university's scientists, the Versitron would allow the construction of an instrument which could detect miles away whether a person had a fever or not.

Radical Innovations

Radical innovations in television studio program production are not far away. NBC is planning a studio that almost thinks for itself. It will actually adapt itself spatially, mechanically, and electronically to script requirements. It will follow directions it issues to itself from a piece of tape!

This tape will cause the studio to expand or contract as required; it will cause the studio floor to assume the shape, height and depth demanded by the scene; it will swing the cameras to shooting position, select the lenses, focus, cause the lights to rise, tilt, lower, pan, dim as needed. Absent from the studio floor will be camera dollies, mike booms, cameramen, boom operators, electricians and dolly pushers. The performers and the directors will have the television stage to themselves and — as one commentator put it — a little tape shall lead them!

RCA engineers believe that it is entirely possible that news photographers will be able to take still pictures at isolated locations and immediately transmit them electronically directly to their offices. In the composing room, neswpapers will extend the application of electronics to typesetting devices, the forerunners of which actually exist today.

Pre-Set Speeds

The electronically controlled automobile travelling at pre-set speeds on major highways is already well out of the realm of pure fantasy. The first models can be expected on a few highways within ten years, the scientists tell us. And, we can be sure at the same time that there will be many electronic devices—some of them do exist today—which will control the highway traffic of

the future and thus make it en possible for such electronically trolled cars to travel safely.

Dr. W. R. G. Baker, vice preand general manager of GE's tronic Division recently rema "It may be possible to drive i gas station, have your tank" automatically and have the billed to your electronic credi by machine."

Materials Handling

In the area of materials han one company is experimenting a device that automatically s from stacked bins, any items for by an operator who spunches keys on a keyboard, items are then released onto veyor belt. One operator can work of ten stock boys. Devithis kind should bring about splete revolution in materials dling in the movement of medise into and out of warel into and out of retail stores.

In the comparatively near the housewife will be able to great deal of her shopping w stirring from the house. It



nically feasible to use the home screen to show merchandise and enable her to record her choices pressing buttons with electrical pulses electronically recorded at istant point. Such devices, when y come, will, of course, use color, the pictures will be in three tensions as mural television takes the bulky instrument now in

Within ten years, it is very sible, the retail store as we know hay be in the very early stages of ppearing, as more and more oping is done in the home bugh electronic devices stemming a color television.

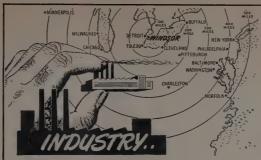
on the next 10 years the technology ommunications — and electronics oncerned primarily with all types communications — will change e radically than it has in the 50 years when communications aged more than it had in the re history of mankind. Perhaps most astonishing thing about tronics is that there are as many, perhaps more, items for ultimass production in the laborathan are actually being mared today.

Atomic Capital

(Continued from page 17)

marine "Nautilus," for the conbual design of the nuclear plant the "Nautilus" came from the stists and engineers of Argonne. If inally, our nation's first nuclear for plant, designed and built extively for the production of ian electric power, is already in fation in Chicagoland. It is the perimental Boiling Water Reactivity in the production of 5,000 watts—has been providing electry to the Argonne Laboratory's ities since early this year.

nee the Experimental Boiling or Reactor will provide much of research data and technological dance for the construction of the beden plant, it is gratifying to be to report that its functioning a been more than satisfying. Its performance indicates that it bear of the power—or upwards of 10-mand kilowatts. Another boiling for "pilot plant" which will hish valuable technology for the teden plant is the power reactor



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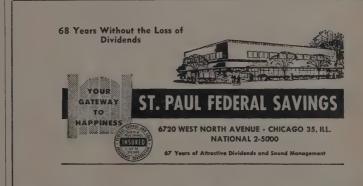
Windsor is ideally situated just across the U.S. border — 1 mile from Detroit, Mich. Of Windsor's 500 industries, approximately $\frac{1}{12}$ th are owned or controlled by U.S. interests.

Windsor is an active, growing city, with excellent road, rail, and water transportation (situated about mid-way on the St. Lawrence and Great Lakes Waterway Development). It has an adequate supply of technical, skilled, and unskilled labour. And, of extreme importance to industry, Windsor has abundant electrical and water supplies—as well as steady and unlimited natural gas at the lowest rates in Eastern Canada.

Windsor has a temperate year-round climate, and can offer ready-to-use industrial sites. You can get a complete and confidential report about Windsor, Canada's 5th city in manufacturing production, by writing: Murray A. Elder, Industrial Commissioner.

Windsor Chamber of Commerce

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ALLIED SCHOOL of MECH TRADES Allied Institute of Technology 1338 S. Michigan Ave. Harrison 7-3915 which General Electric is building at Vallecitos, California. But the Vallecitos plant will not be merely as experimental device to aid General Electric in building the Dresden plant; it too will produce commercial power. Later this year, that pilot plant will be turning out 3,000 kilowatts of electricity to be distributed over the lines of the Pacific Gas and Electric Company.

Extensive Study

From these facts, it is evident that the boiling water concept of nuclear power plants is backed by extensive study and experiment. The functioning of the Experimental Boiling Water power plant at Argonne has confirmed the opinion of the Commission's staff that this type is one of the most efficient, and most promising among the several being actively pursued in the Commission's development program. It is also inherently a safe design.

The Commonwealth Edison Plant at Dresden is the first full-scale nuclear power plant anywhere in the world on which actual construction has begun on a completely "risk basis." This plant, to cost some \$45-million, is being financed entirely by private capital without any direct financial contribution by any government. This is a tribute to the bold vision and the enterprise of Commonwealth Edison and its associated companies, and their confidence in the atomic future. This is private enterprise at work for peaceful progress and public welfare, in the best American tradition.

This bold resourcefulness was only to be expected, perhaps, since Commonwealth Edison was one of the earliest pioneers in the progr develop nuclear power in this try. Back in May of 1951, the A Energy Commission asked Am industries and utilities to s proposals for getting underwa' special studies on "the practicof business and industry buand operating reactors for production."

Commonwealth Edison, to with the Public Service Cor of Northern Illinois, was o four groups selected to make studies. At that time, the dement of atomic energy—in bimilitary and civilian applica was held in the tight, repgrip of government monopofact, in September of 1952, the vailing pilosophy as stated spokesman for the AEC was tight.

"We cannot split the agenergy industry into two labeling one for military put and keeping it under gover control, and labeling the other civilian purposes and releast to private industry.... The mental thesis on which the freferring to the original afferergy Act of 1946 then in is based is that the developmatomic energy was to be ungovernment monopoly."

No Major Project

A few weeks later, in Dec 1952, the Joint Committee Atomic Energy of the Congr knowledged in a published that there existed in the States "no major project who pose is to achieve a reactor d advancing industrial power atomic power plant existed; was under construction. The the unpromising situation th vailed at the beginning of and it was not until the foll year, in August 1954, that th of government monopoly was broken by passage of the Co kenlooper Atomic Energy Act

In these past three year growth of this infant indust been unprecedented. No other jor discovery by science has been applied so quickly to so uses. At least 21 American fir either presently building, or pling to build, nuclear reactors production of electricity, for

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sion or for research. During the calendar year, the new industry orted the start of construction the negotiation of contracts for a 1 of 59 new nuclear reactors for vate buyers in this country, for government or for export. Twentine of them are for power protion and 30 others for research testing. In addition, work went ward on 17 reactors of various es for which contracts had been unded prior to 1956. None of this iness existed prior to 1954.

he building of reactors is not only activity in the new nuclear ustry. During the past year, erican firms signed contracts or sounced plans to build eight nium ore-processing mills, a feed erials plant, five plants for the duction of nuclear fuel-elements, en so-called critical facilities, and pe plants to produce metals of nuclear age such as zirconium beryllium.

Civilian Power

'he atomic energy industry exts to spend about \$270-million year on the construction of lian power and military reactors, well as another \$200-million on nium mining and milling, some million on instrument manuure and perhaps \$25-million on lear research, aside from power tor research. The total outlay this year for the infant industry 1 excess of a half-billion dollars. leanwhile, five and perhaps six lear plants for the production of lian power will come into operathis year. Two of them, in fact, ady are generating electrical watts - the boiling water reactor argonne and the Army Package er Reactor at Fort Belvoir near shington. General Electric's ot" installation for the Dresden t - now nearing completion at ecitos, California - will come on soon, as will North American's er-producing sodium-cooled rer at Santa Suzana, California, the homogeneous power reactor lak Ridge, Tennessee. The Dune-Westinghouse 60,000-kilonuclear power plant at Ship-Port, Pennsylvania, is scheduled completion this year.

the mid-1960's there will be imber of plants serving homes industries across the nation and among these there will be eight or more which—like the Dresden plant—will be financed entirely by private capital without calling upon the government for any direct financial assistance. These privately built plants will, by themselves, have a total capacity well in excess of one-million kilowatts, without taking into account the nuclear power plants to be built under the government's partnership arrangement with in-

dustry under the Power Demonstration Program.

The past three years have seen a significant change. American industry has moved into the field with boldness and resolution and with confidence based on the sound technology of many resourceful research organizations. The next three years will bring an accelerating increase in both discovery and application of the peaceful atom.

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Stop me...lf...



The father, passing through his son's college town late one evening, thought he would pay his son a surprise visit. Arriving at the son's fraternity house, he rapped on the door but was unable to rouse any-body. Then from a second floor window came a sleepy voice.
"Whaddyah want?"

"Does Steve Jones live here?" said the father.

"Yeah," replied the voice. "Bring him in."

"Repeat the words the defendant used," said the lawyer.

"I'd rather not. They were not fit words

to tell a gentleman."
"Then," said the attorney, "whisper them to the judge."

"Isn't it hard to keep a budget straight?"

"My dear, it's terrible!" confided Mrs. Smithkins. "This month I had to put in four mistakes to make mine balance."

The bright young high school graduate applied for his first full-time job in the railroad car department. He read the application blank which asked, "What machines can you operate?"

The youth studied hard, then wrote, "Stot and piphall."

"Slot and pinball."

The drunk staggered from deck to state-room, sat down, and peered through the porthole the entire afternoon. Finally he got up, turned his back, and mumbled, "What a lousy television show." What a lousy television show.'

Foreman-"How is it that you carry only one plank and all the other men carry two?"

Worker—"They're just too lazy to make two trips like I do."

The geography teacher asked Bobby a

question about the English Channel.
"I don't know," answered Bobby, don't have that channel on our TV set."

Things had been extremely quiet the police station for quite a while a

the police station for quite a while a desk sergeant was worried.
"I don't know what to think!" claimed one morning. "Here's a week gone by and no robberies, n' ders, no drunk or disorderly case not even a traffic arrest. If sor doesn't happen pretty soon, they'll ing us off."

ing us off."
"Don't worry about a thing, Sarplied a patrolman. "Something's behappen soon. I've still got a lot of a human nature!"

Little Tommy, crying lustily, ca of a room in which his father wa some amateur carpentering

"Why, Tommy, what's the matter mother asked.

"D-d-daddy hit his finger with th mer," sobbed Tommy.
"Well, that's nothing to cry about forted his mother. "Why didn't you Sobbed Tommy: "I did!"

After a very trying day at the off Arter a very trying day at the on husband was enjoying his pipe and the evening paper. His wife, w working on a crossword puzzle, s called out, "John, what is a female, "Ewe," replied her husband. An

how the fight began.

"She's an after dinner speaker."
"She is? I didn't know that."
"Yes. Whenever she speaks to she's after dinner."

"Can you help me select a gif wealthy old uncle who is awfully w can hardly walk?"

'How about some floor wax?"

Young Son: "Dad, Mom just backed the of the garage and ran over my bicycle."

Dad: "Serves you right for leaving it on the front lawn."

"Is Dan a confirmed bachelor?"

"He is now. He sent his picture to a lonely hearts club and they sent it back with a note saying: 'We're not that lonely.'"

The wife of a farmer sold her surplus butter to a grocer in a nearby town. One Saturday morning the grocer told her, "Your butter was underweight last week." "Now, ain't that something," said the woman. "I was unable to locate my weight

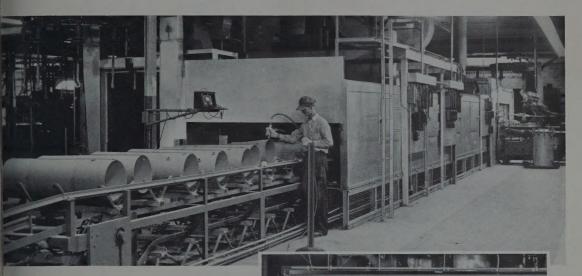
for the scale that day, so I used the pound of liver you sold me."

Sign in a Park Avenue apartment house: "Please do not leave baby carriages or foreign cars in the lobby.'

Little Mary—"Teacher, can't you come to see ou'r new baby?" Teacher—"Thank you, dear, but I'll wait a while until your mother is better." Little Mary—"Oh, that's all right, teacher, it isn't catching."



GAS AT WORK for Chicago's Industry



pove: The Rheem Manufacturing Company, 7600 South adzic Avenue, Chicago, manufactures water heater tanks th Rheemglas lining to protect them from rust and corron. In this process, the shells are sprayed with a special to (called slip when wet, bisque when dry) and dried in a 3-foot hot zone Gas-fired drying oven.

ght: After drying, the shells are attached to a continuous onorail conveyor which carries them through the threene heat controlled Gas-fired enamelling furnace. This race converts the coating of bisque to the final Rheemas surface.

ne Rheem Manufacturing Company fabricates and assembles various types of water heaters, pilers, space heating equipment and water fteners and is one of the country's largest projects of steel shipping containers. Throughout plant on Chicago's southwest side, Gas is used large quantities for various types of industrial locessing. These include enamelling, galvanizig, lithographing, drying and parts washing.



For information on how Gas can serve you in your production operations, call WAbash 2-6000, Extension 2449. One of our industrial engineers will be glad to discuss Gas fuel and its economies as they apply to your plant.



INDUSTRIAL DEPARTMENT



Who turned on the juice in Chicago?

Back in the days when Goldilocks Monroe was a star of tomorrow and postwar prosperity had the big, bad wolf on the run (circa 1952), Henry Bear put on his far-seeing specs to take a peak at the future of the appliance business.



And it looked good, very good.

And this made Henry very glad. Because he was the big Chicago distributor for AC-DC, dynamos of the electrical appliance world. Henry's only problem was how best to spend his advertising dollars. Was it better to let selected dealers control his advertising? Or sell his brand himself and feature all his dealers?

Henry decided to discuss this explosive question with Joe, expert trouble-shooter from the Chicago Tribune. And it just so happened that Joe was loaded with all the current facts that Henry needed. Fr'instance: in 1952 small dealers in the Chicago market accounted for as many sales of major appliances as large dealers. (And the picture hasn't changed today. In 1956, small dealers sold 53% of all automatic washers, 67% of all refrigerators, and 70% of all kitchen ranges.) So, Joe's song went something like this:

"A distributor can't go wrong supporting both big and little dealers with a powerful advertising campaign direct to consumers. This advertising must be local (to support local dealers) heavy (to pre-

sell consumers) and consistent (to maintain properties)."

And if you're familiar with space reps (and care you are), you can guess the advertising nhe recommended.

Henry bought all of Joe's fine recommendation a giant-size campaign in the Chicago

The scene now switches to Henry's office, fix later. Enter Joe, pleased as Punch and 10 heavier. (He says he's going on a diet next The reason why he feels so pleased is beca Tribune's 1956 Home Appliance Survey sho since 1952, AC-DC has increased its share of in its most important appliance lines. Wa up 42%; dryers—up 28%; vacuum cleant 56%; room air conditioners—up 124%. Eve highly competitive field of refrigerators, A share of sales had increased from 16.3% to

So as a result of AC-DC's intensive Chicago tising efforts mainly concentrated in the T Henry Bear, Joe and the

friendly neighborhood dealers are all living happily ever after.

Now maybe you sell astringents or automo stead of appliances, but if you want to sell them in Chicago, call on Joe. Nobody Chicago like the Tribune. Nothing sells like the Tribune. And Joe can give the fact

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